

Rangeland Resource Science

LOWER DIVISION

RRS 285 / SOIL 285. Rangeland Resource Seminar (1). Current topics in wildland resources (range & soils) assigned, presented, and discussed. Guest presentations from practicing professionals & scientists. Student oral & written presentations required. [Rep twice.]

UPPER DIVISION

RRS 306. Wildland Resource Principles (3). Analysis of rangeland biophysical communities; management for sustainable human and environmental values; use by wild and domestic animals; historical and legal changes in rangeland management. [GE.]

RRS 360. Wildland Plant Communities (3). Delineation and synecology of important North American rangelands. Plant identification of important grasses, forbs, and shrubs. [Prereq: BOT 350 (C) or IA. Weekly: 2 hrs lect, 1 hr lab.]

RRS 370. Wildland Ecology Principles (3). Interplay of ecological principles with species composition, distribution, disturbance responses, and management of grassland, woodland, and shrubland communities. [Prereq: RRS 306 or IA.]

RRS 375. Vegetation Analysis & Health (3). Vegetation and wildland health monitoring and analysis procedures. Observe and evaluate vegetation organization & structure. Interpret distinct ecological sites. Field demonstration and analytical work. [Prereq: RRS 306, and STAT 109 or equivalent.]

RRS 420. Introduction to Animal Science (3). Characteristics, physiology, adaptation, and improvements of livestock breeds, animal welfare, feeding, grazing, and marketing. [Prereq: BIOL 105 or ZOOL 110; or IA. Weekly: two 1-hr lects, 3 hrs lab.]

RRS 430. Wildland Restoration & Development (3). Treatments, developments, and structures to improve rangeland ecosystems, services, and function. Ecological principles in ecosystem management and restoration. [Prereq: RRS 306 or WLDF 301. Weekly: 2 hrs lect, 3 hrs lab/field trip.]

RRS 460. Rangeland & Ranch Planning (2). Develop management plan for livestock operation, resource management area, or federal rangeland allotment. Analyze economic programs including conservation easements and incentives, physical and biotic resources. [Prereq: RRS 420 and RRS 430. Field trips substitute for scheduled lab time.]

RRS 461. RRS Capstone (1). A wildland plant, plant community, or plant-soil project (individual or team) culminating in written and oral presentation. Demonstrate critical thinking skills applied to complex issues.

RRS 465 / FOR 465. Forestland Grazing (2). Livestock as a silvicultural tool to replace or supplement existing methods (mechanical or herbicidal) in managing plantations and second-growth forests. [Prereq: RRS 306 or FOR 116.]

RRS 470. Grazing Influences (2). Behavior of grazing animals; grazing strategies. Physiological and ecological responses of plants to defoliation. Interrelationships of the complex of soils, plants, animals. [Prereq: RRS 306 and BOT 310.]

RRS 475. Advanced Study of Rangeland Plants (1). Identification and importance of range plants based on specialized morphological characteristics. HSU range-plant judging team selected from class. [CR/NC. Prereq: BOT 350, BOT 354, RRS 360; or IA. Rep.]

RRS 480. Selected Topics in Rangeland Resources (1-3). Lecture as appropriate. [Rep once with different topic.]

RRS 492. Senior Project (3). Independent research which will include fieldwork and completion of a scientific paper. [Prereq: senior standing. Rep.]

RRS 499. Directed Study (1-3). Original research on assigned topics. May involve lab, field, or library work. [Prereq: RRS 306. Rep.]

GRADUATE

RRS 500. Advanced Study of Wildland Resources (2). Lecture presentations and literature review discussions on current topics in wildland resources as related to rangeland resources and wildland soils. [Prereq: grad status or IA.]

RRS 580. Advanced Topics in Rangeland Resources (1-2). Lecture as appropriate. [Rep once with different topic.]

RRS 685. Rangeland Resources Graduate Seminar (1). Important problems/changes in RRS. Review literature to propose solutions. [Rep.]